

KDC-74D

FM/AM CD RECEIVER

INSTRUCTION MANUAL

COMBINÉ TUNER CD

MODE D'EMPLOI

CD-/RECEIVER

BEDIENUNGSANLEITUNG

CD RECEIVER

GEbruIKSAANWIJZING

SINTOLETTORE STEREO COMPACT DISC

ISTRUZIONI PER L'USO

KENWOOD CORPORATION



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Note on Operation

- The CD Player is designed to be connected to 12 V DC and negative grounding.
- Avoid mounting the CD Player where it is likely to be exposed to direct sunlight, hot air or water. Also, avoid mounting it where there is excessive vibration. Take care not to allow any metal objects or water to enter the interior of the CD Player.
- When you use the CD Player for the first time, or if you have replaced the battery, push the RESET button with the tip of a pencil or similar pointed object.
- If a disc is inserted violently, sometimes a protection circuit will function and stop the operation. Should the protection circuit function, turn the power switch OFF once and then turn it ON again.

About Condensation

- When a disc or disc magazine is brought from a low-humidity place to a car where there is high humidity due to rain, etc., water vapor may condense on the disc. Or, when the main unit of the changer is installed under the dashboard, condensation may occur on the surface of the optical lens immediately after turning on the heater. If the CD player is operated in this condition, the laser pickup may not correctly read out the signal, or dropouts may occur occasionally. Thus, correct operation may not be obtained. In such cases, dehumidify the disc, or remove the disc magazine from the changer and leave it for about one hour, at which time correct operation will resume.
If the CD player does not operate correctly after a long time interval, consult your dealer or nearest KENWOOD Service Station.

About temperature

- When a car is exposed to sunlight with all the windows closed, the temperature inside will rise considerably. When it rises above 60 degrees C, a circuit that protects the interior will function, displaying "HOLD" and the compact disc may sometimes cease to operate. In such a case, the compact disc cannot be played back. At that time, operate the air-conditioner or open the window and drive for a while to decrease the room temperature. When the room temperature is lowered, the "HOLD" indicator automatically goes off and play starts automatically. If the compact disc cannot still be played back correctly, press the reset button.

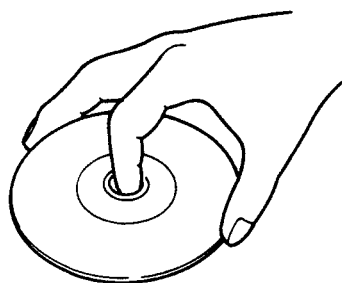
Handling of compact disc

- Stains, dust or scratches on the disc or warping of the disc will cause malfunction such as skipping. Handle the disc in the following manner so that you may enjoy the beautiful sound of the CD Player for a long time.

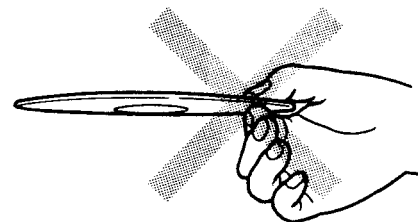
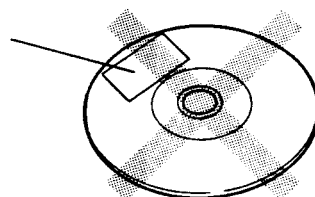
BEFORE USE

< Handling the disc >

Hold the disc without touching the music storage area (glistening rainbow colors). Do not apply a paper tape to the label on the disc nor to the music storing area.



Paper tape

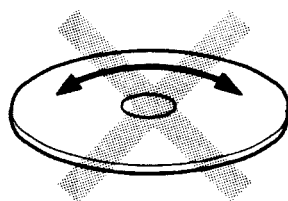
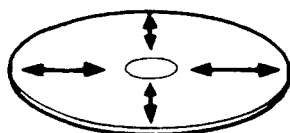


< Storage of compact disc >

- Do not put the disc where it is exposed to direct sunlight, heat or humidity.
- Especially in summer, never leave the disc exposed to direct sunlight or placed on the seat or dashboard with the windows closed because the temperature will rise considerably and the disc will warp.
- When the player is not in use for an extended period of time, remove the disc magazine from the changer, and store it in a place which is not subject to high temperature or high humidity.
Be sure to store the discs in their cases or in the magazine. Do not leave them outside of the case or magazine, or piled up, or leaning on a slant. This may cause scratches, dirt or warping.

< Cleaning of compact disc >

If there are fingerprints or stains on the disc, remove them by lightly wiping it with soft cotton cloth from the center toward the outside edge. Never use thinner or benzine. Also, avoid using conventional record cleaner.



Soft cotton



Thinner Benzine

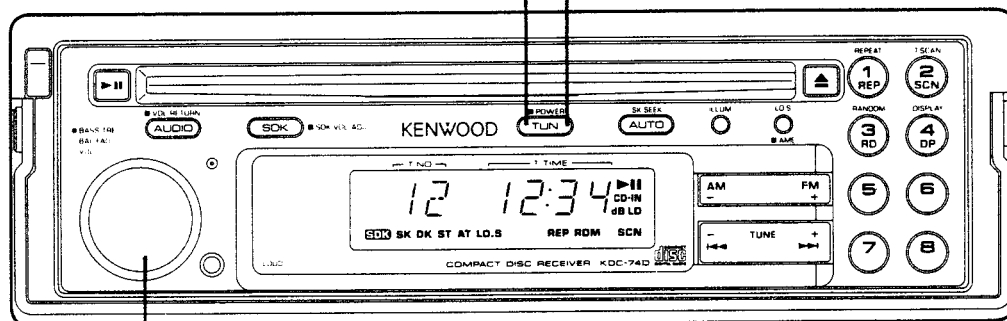
POWER AND VOLUME

POWER ON

Press the Power switch.
(The power goes ON.)

POWER OFF

Press the Power switch for more
than 1 second.
(The power goes OFF.)



VOLUME

Turning this knob clockwise,
increases the volume, and turning
counterclockwise, decreases.



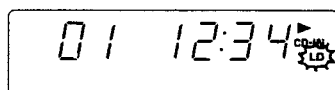
- Turning the power ON automatically turns this unit to a tuner mode.
- Tap the Power (Tuner) switch to change the play mode from disc play to tuner.
- Explain how to operate hereafter with the power ON.

LOUDNESS CONTROL

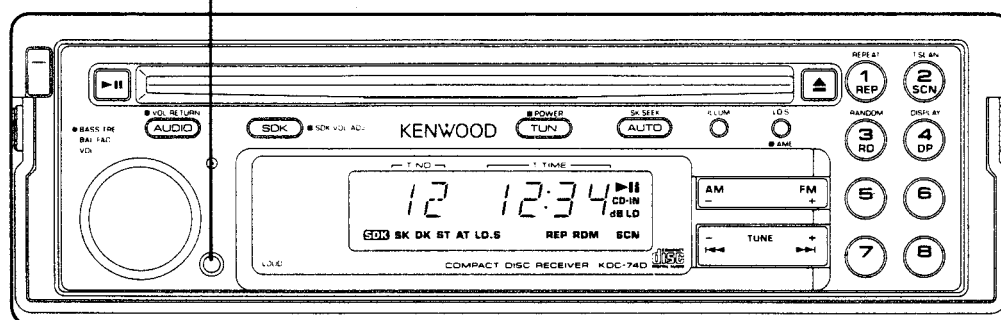
ENGLISH

LOUDNESS SWITCH

When listening at low volume levels, press this switch will activate the loudness circuit which will compensate for the human ear's decreased response.



ON



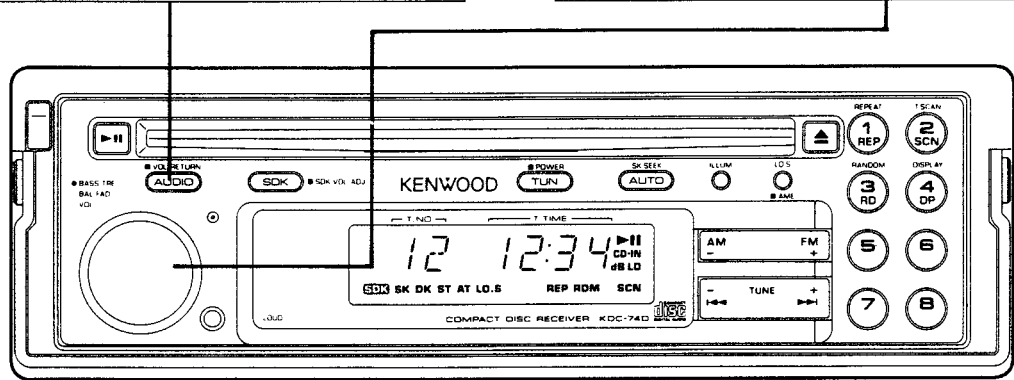
AUDIO CONTROL

1

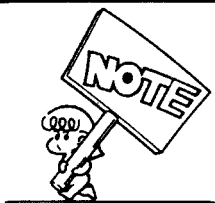
Tapping the Audio switch will enable the audio control. Unless it is tapped, Volume and it becomes possible to adjust in the order of Bass, Treble, Balance and Fader and back to Volume if tapped every time.

2

Adjustment will be made by the Audio controller respectively. For operations and display, refer to the following table.



Display	Operation of volume controller	
	Turn counterclockwise	Turn clockwise
Adjust the Volume 	Volume decreases.	Volume increases.
Adjust the Bass response 	Bass decreases.	Bass increases.
Adjust the Treble response 	Treble decreases.	Treble increases.
Adjust the Balance of the right and left channels 	The left sound will be emphasized.	The right sound will be emphasized.
Adjust the Balance of the front and rear channels 	The front sound will be emphasized.	The rear sound will be emphasized.

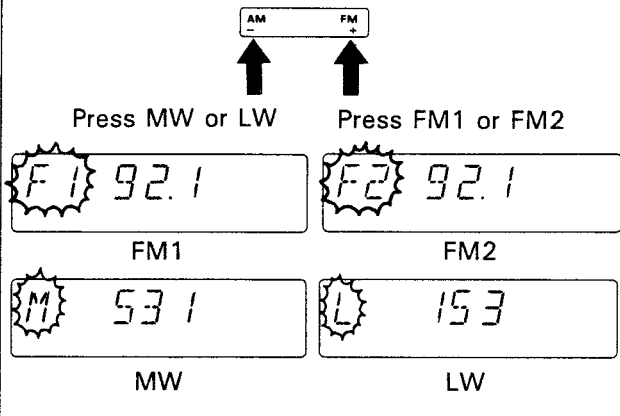


- The player will return to volume control function when more than 5 seconds elapses after pressing the Audio switch or the Audio controller, or by pressing the Audio switch for more than 1 second.

SEEK TUNING

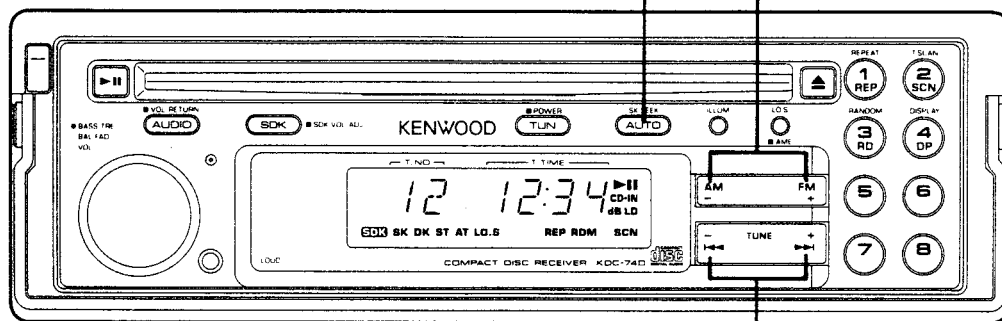
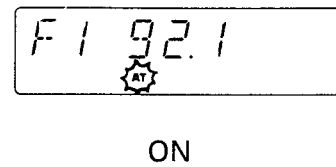
1

Select the desired Band.



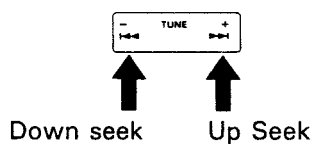
2

Turn the Auto switch ON.

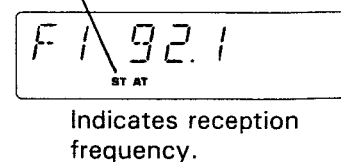


3

Press Seek switch.
(Seek starts and receives a broadcast station.)

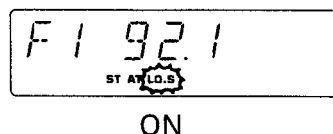
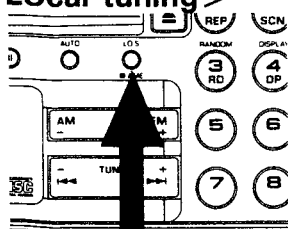


Lit when stereo broadcast is received.



Indicates reception frequency.

<Local tuning>

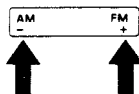


- If the Local switch is turned ON during SEEK TUNING and AUTO MEMORY, it will stop at stations only with satisfactory reception conditions.

MANUAL TUNING

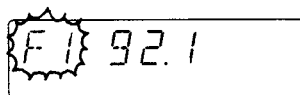
1

Select the desired Band.

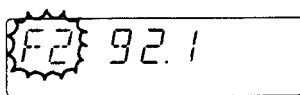


Press MW or LW

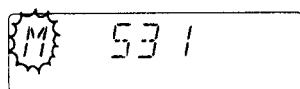
Press FM1 or FM2



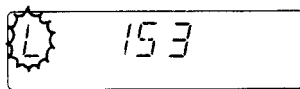
FM1



FM2



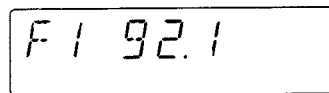
MW



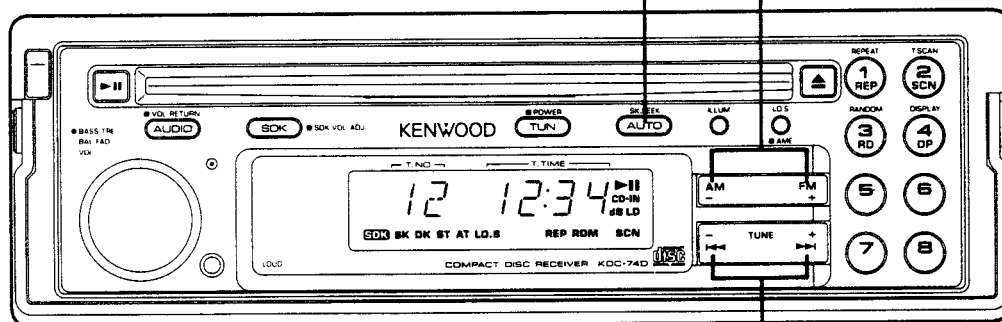
LW

2

Turn the Auto switch OFF.

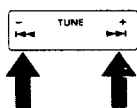


OFF



3

Press to select the desired frequency.



For lower frequencies

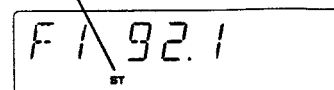
For higher frequencies

(Continued pressing will change it continuously.)

4

Indicates the frequency being received.

Lit when stereo broadcast is received.



Indicates reception frequency.

PRESET STATION TUNING

1

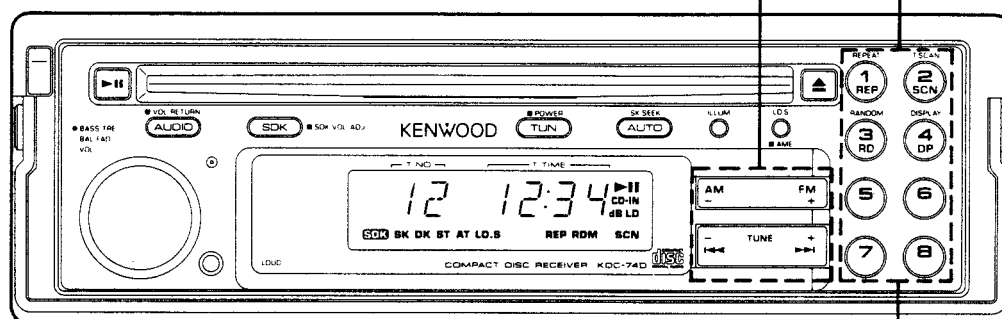
Selects the band and station you wish to preset.

2

Press the Preset station switch you wish to be kept preset for more than 2 seconds.

(When it is preset, the number of switch pressed will be indicated.)

F1 92.1 8



3

By repeating operation of 1 - 2 above, one station can be memorized in one switch each at FM1, FM2, MW and LW.

4

If tapped, the preset station can be called out.

(The number of switch pressed will be indicated.)

F1 92.1 8

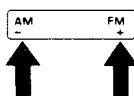


- If preset is to be made anew on the switch already preset, what was preset before will be replaced with what is to be preset.

AUTO MEMORY

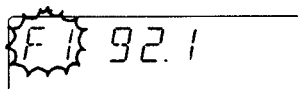
1

Select the desired band.

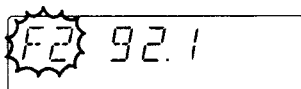


Press MW or LW

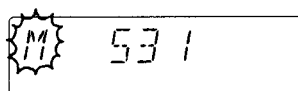
Press FM1 or FM2



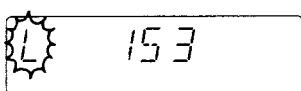
FM1



FM2



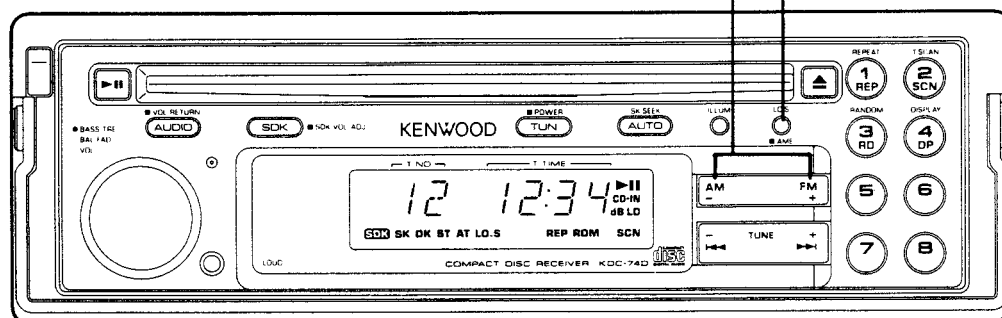
MW



LW

2

Press the Auto memory switch for more than 2 seconds.



3

The selected band is automatically scanned and 8 stations are memorized. When 8 stations are memorized, the AUTO MEMORY function is automatically released.

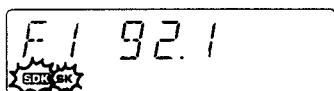
4

The station last stored in memory is received.

TRAFFIC INFORMATION

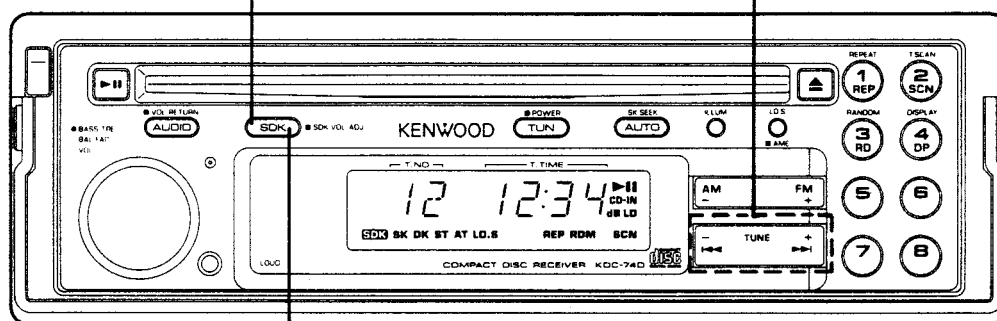
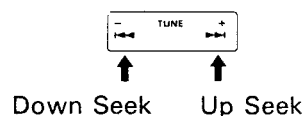
1

Tap the SDK switch.
(SDK indicator lights up.)
When the receiving broadcast station is not the SK station, it will start to seek up to the SK station.
(SK indicator lights up.)



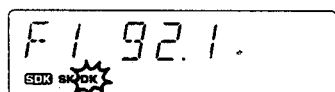
2

If the station received is not the station you wish to listen to, press the Seek switch again.
(The seek operation resumes and continues until the next SK station is received.)



3

When the traffic information starts, the volume will automatically be set to.
(DK indicator lights up.)



4

To listen to traffic information at the same level, tap the SDK switch.



- If the Auto switch is kept ON at the operating time of 2., you can make a swift station selection.
- When the signal of the received SK station becomes weak, the unit scans up the band after 5 seconds and receives other SK station.
- Pressing the SDK switch in the MW/LW mode changes the reception mode to the FM mode. However, pressing the SDK switch again will not return the mode to the MW/LW mode.

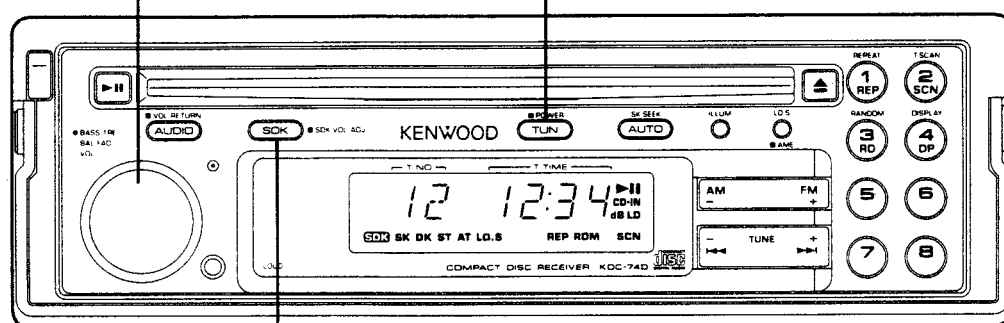
■ Setting the level during traffic information reception

1

Set the unit to Tuner mode.

2

Adjust the volume level during traffic information reception.



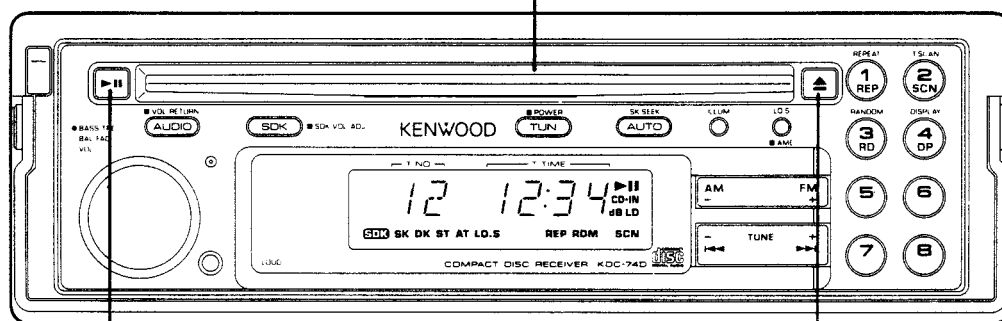
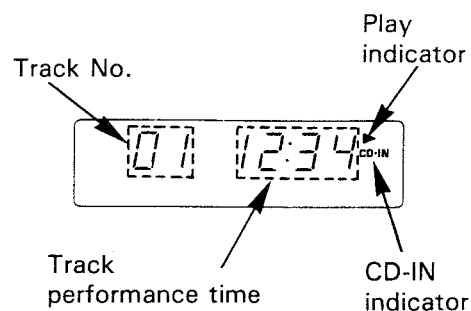
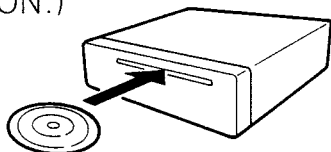
3

Press the SDK volume adjust switch for more than 1 second.
(The volume level set in step 2 is memorized.)

COMPACT DISC PLAY

COMPACT DISC PLAY

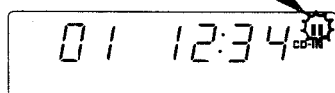
Insert a 12 cm CD and an 8 cm CD with the label sides up.
(The disc will be drawn in, starting the CD-IN and Play indicator to light ON.)



PAUSE

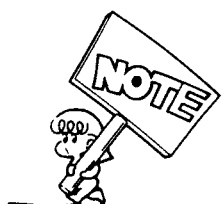
Press the Play/Pause switch.
(Disc play is temporarily paused and Pause indicator lights up.)
If you press the switch once more, the disc is replayed from the paused part.

Pause indicator



EJECT

Press the Eject switch.
(The disc will come out.)



- Automatic loading and play can be made if the Play/Pause switch is pressed in the eject condition. Furthermore, if more than 15 seconds elapse in the ejection condition, it will automatically load and stop.
- When a disc is already inserted, do not insert another disc into the inserting slot.

AHEAD/BACKWARD (at high speed)

Operation	Press
Ahead	+
Backward	-

The Ahead/Backward play is released as soon as the finger is removed from the switch.

TIME DISPLAY

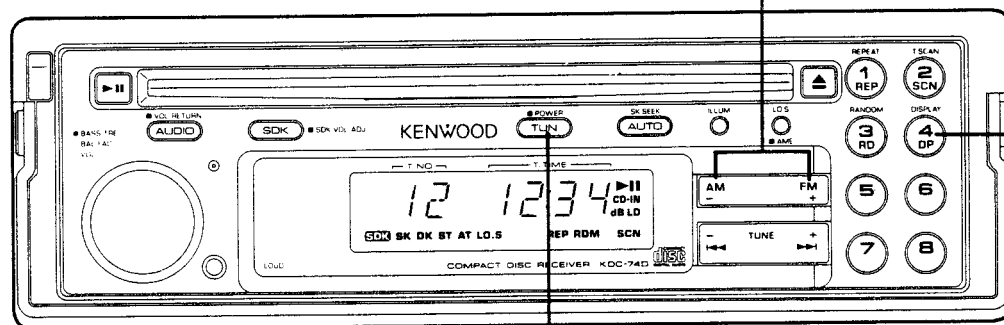
Press the Display switch.
(Every time you press it, it switches over between the track performance time and the disc performance time. When the disc performance time is displayed, "÷" will appear.)

02 0 1:23 ▶ CD-IN

Track performance time display

02 ÷ 12:34 ▶ CD-IN

Disc performance time display



LISTENING TO TUNER

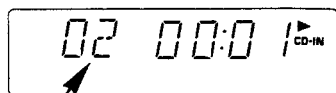
Tap the Tuner switch.
(The unit enters Tuner mode.)

TRACK SEARCH & TRACK SCAN

■ TRACK SEARCH

BACKWARD TRACK SEARCH

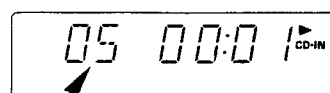
Press the ◀◀ switch successively until the Track No. display shows the desired track No.



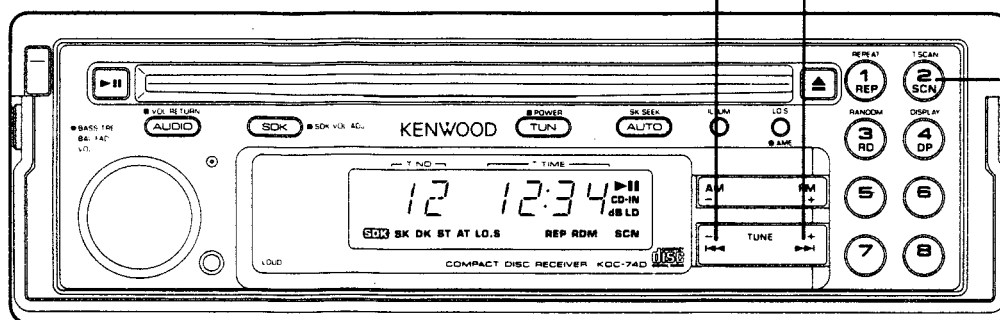
Track No. display

FORWARD TRACK SEARCH

Press the ▶▶ switch successively until the Track No. display shows the desired track No.



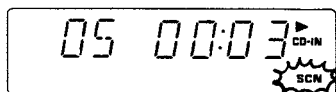
Track No. display



■ TRACK SCAN

1

Press the Track scan switch.
(The first 10 seconds of all tracks in the CDs are played in sequence, starting the Scan indicator to light ON.)



ON

2

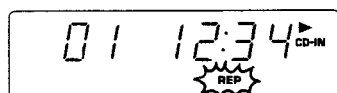
When the beginning of a desired track starts to be played, press the Track scan switch.
(Track scan play is released and normal CD play starts.)

REPEAT PLAY & RANDOM PLAY

REPEAT PLAY

1

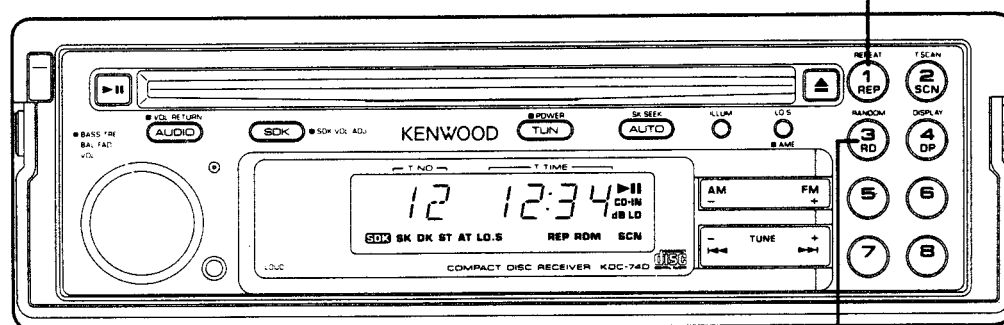
Press the Track repeat switch.
(Repeat indicator lights up.)



ON

2

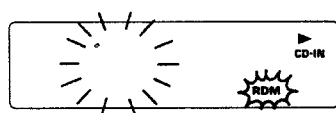
The track being played is played repeatedly.
(To release, press the Track repeat switch again.)



RANDOM PLAY

1

Press the Random switch.
(Random indicator lights up, changes the track number display one after another and selects the track.)



During Random Search

2

The tracks in the CD is played in a random order.
(To release, press the Random switch again.)

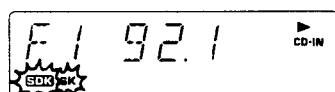


- Pressing the ►► switch during random play changes the track to the next random selection.

TRAFFIC INFORMATION during DISC PLAY

1

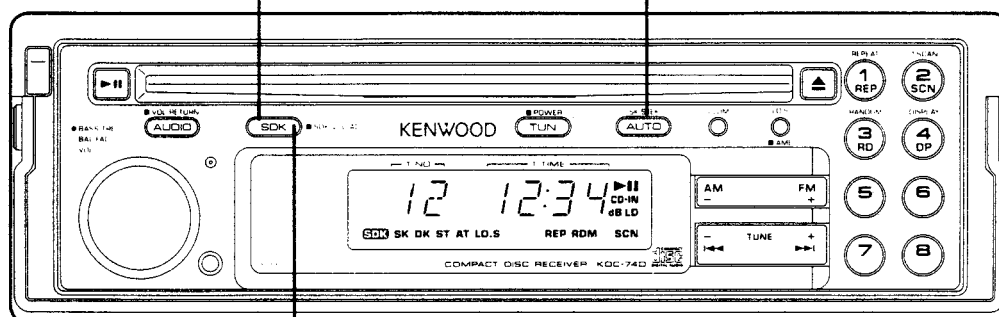
Tap the SDK switch.
(SDK indicator lights up.)
When the receiving broadcast station is not the SK station, it will start seek to up the SK station.
(SK indicator lights up.)



The frequency is displayed.

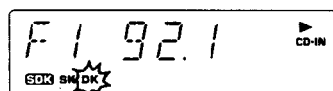
2

If you are not pleased with the SK station being received, press the SK Seek switch.
(It will receive another SK station.)



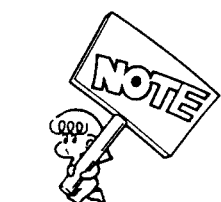
3

When traffic information starts, it automatically switches over to traffic information, (the disc play stops and DK indicator lights up) and when it is finished, it will return to the disc play.



4

When it switched over to traffic information, if you wish to continue listening to the disc, tap the SDK switch.
(It will return to the disc play.)

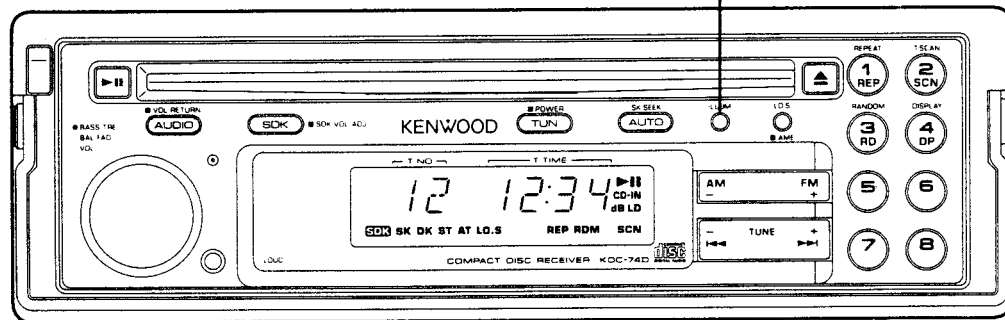


- When the SDK switch is kept ON, even if it is turned to the disc play, you can listen to traffic information as well.

SELECTABLE ILLUMINATION

- Illuminations can be changed to fit the type of car or to suit your own taste.

Every time the Illumination switch is pressed, it will switch over between the colors of green and orange.

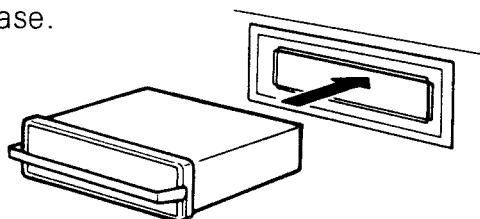


INSERTION/REMOVAL OF UNIT

■ Insert the unit

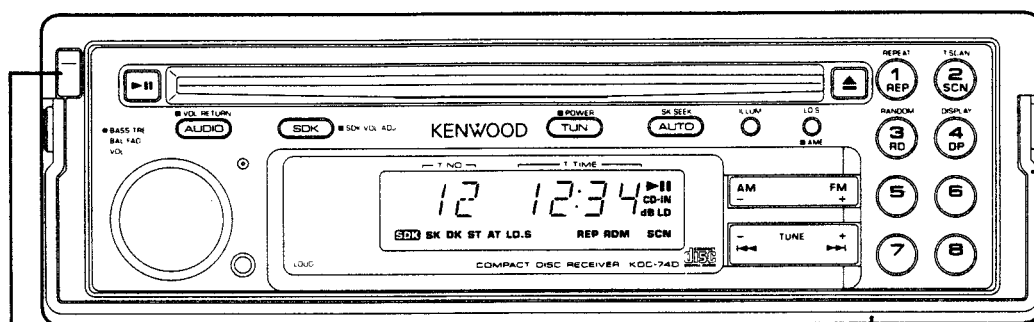
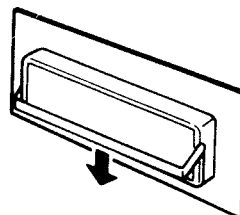
1

Insert the unit into the detachable case.



2

Lower the handle down to the bottom.



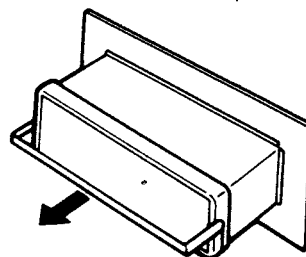
■ Remove the unit

1

Press the T.P.C. button.
Lift the handle.
(The handle lock is released and power is OFF.)

2

Hold the handle and pull it out.



- This unit is precisely designed. While transporting the unit, do not apply shock. Doing so may damage the unit.

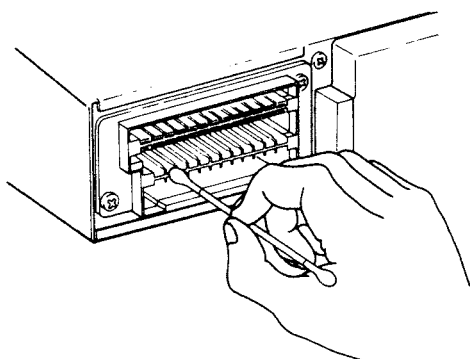
CARE AND MAINTENANCE

- Do not place the compact disc player in a place where the compact disc player may be exposed to direct sunlight, heat or moisture. Be careful that metal objects and water do not enter the set.
- If you have difficulty in installing the set in your car, please contact your KENWOOD dealer.

Cleaning

Clean with a dry silicone cloth or a soft cloth. The use of thinner, alcohol, or other solvents may damage the surface finish.

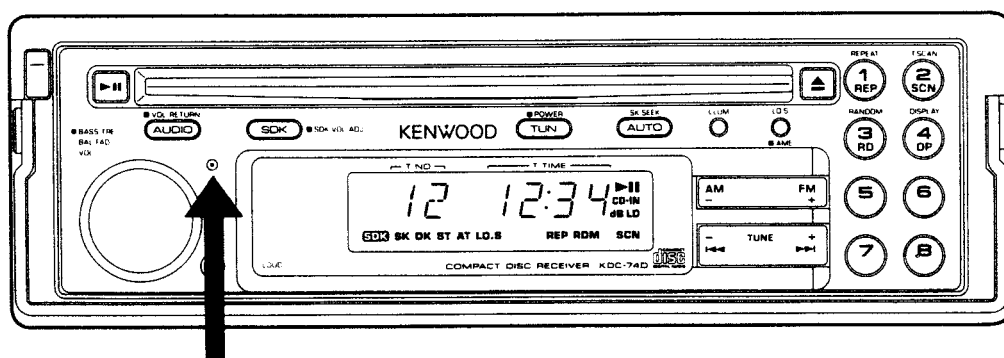
CAUTION:



The connection at the rear sometimes will require cleaning. Periodically wipe the connector with a cloth moistened with alcohol as shown at left.

• If your set malfunctions

If your set malfunctions or operates abnormally, first press the Reset button. If the malfunction persists, leave the set as it is and please call your KENWOOD dealer.



Reset button

TROUBLESHOOTING GUIDE

What often appears to be a malfunction is often due to user error in operation or connection. When trouble occurs with your unit, please check the following before calling for service.

Symptom	Cause	Remedy
Compact disc cannot be inserted.	A compact disc has already been inserted and you are trying to insert another disc.	Eject the previously inserted disc and insert another one.
A disc is ejected immediately after being inserted.	<ol style="list-style-type: none"> 1. The compact disc is inserted upside down. 2. The compact disc is very dirty. 	<ol style="list-style-type: none"> 1. Insert the disc with the labeled side facing up. 2. Clean the disc (refer to "Cleaning of compact disc").
Even when the required track is specified, the specified track is not played or the player does not function.	The player is set to RANDOM PLAY.	Release RANDOM PLAY.
Sound is skipped by vibrations.	The compact disc is dirty or damaged.	If the sound skips even while the car is stationary, clean the compact disc (refer to "Cleaning of compact disc").
The sound quality is poor due to noise during playback.	<ol style="list-style-type: none"> 1. The compact disc is damaged or dirty. 2. The sound recorded in the compact disc itself is poor. 	<ol style="list-style-type: none"> 1. Clean the compact disc (refer to "Cleaning of compact disc"). 2. Try playing another compact disc. If its sound quality is good, the poor sound was due to the disc itself.
No sound one channel	The balance/fader control is extremely rotated to one side.	Adjust the balance/fader control.
Poor reception	The antenna is not extended.	Extend the antenna.
Operation switches do not function.	Correct operation is not obtained due to a sudden change in the power voltage, etc.	Press the Reset button of the front panel.

SPECIFICATIONS

Specification subject to change without notice.

Disc Section

Laser Diode	GaAlAs ($\lambda = 780 \text{ nm}$)
Digital Filter (D/A)	8 Times Over Sampling
D/A Converter	1 bit (with D.P.A.C)
Spindle Speed	500 ~ 200 rpm (CLV)
Wow & Flutter	Below Measurable Limit
Frequency Response ($\pm 1 \text{ dB}$)	5 Hz ~ 20 kHz
Total Harmonic Distortion (1 kHz)	0.005%
Signal to Noise Ratio	96 dB
Dynamic Range	96 dB
Channel Separation	85 dB
Laser Diode Properties	
Material	GaAlAs
Wavelength	780 nm
Emission Duration	Continuous
Laser Output Power	Less than 44.6 μW

* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

FM Tuner Section

Frequency Range	87.5 MHz ~ 108.0 MHz
Channel Space	50 kHz
Usable Sensitivity	12.0 dBf (1.1 $\mu\text{V}/75 \Omega$)
50 dB Quieting Sensitivity	15.2 dBf (1.6 $\mu\text{V}/75 \Omega$)
Frequency Response ($\pm 1 \text{ dB}$)	30 Hz ~ 15 kHz
Signal to Noise Ratio (IEC-A)	70 dB
Selectivity (DIN)	70 dB
Capture Ratio	1.5 dB
Stereo Separation (1 kHz)	40 dB

MW Tuner Section

Frequency Range	531 kHz ~ 1611 kHz
Channel Space	9 kHz
Usable Sensitivity	27 dB μ

LW Tuner section

Frequency Range	153 kHz ~ 281 kHz
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Audio Section

Max. Power Output	15 W \times 2 or 5 W \times 4
Power Output (4 Ω , 30 Hz ~ 20 kHz, 1% THD)	10 W \times 2 or 3 W \times 4
Tone Action	Bass: 100 Hz \pm 8 dB Treble: 10 kHz \pm 8 dB
Preout Level (10 k Ω)	1.0 V

General

Operating Voltage	14.4 V (11 ~ 16 V)
Current Consumption	5.0 A
Operating Temperature	-10 ~ 50 $^{\circ}\text{C}$
Installation Size (W \times H \times D)	180 \times 50 \times 170 mm
Weight	2.1 kg